START 102 OBTAIN ASSEMBLY LANGUAGE PROBREM DETERMINE STATIC 104 FREGUENCY EACH DISTRUCTION JOSTRUCTION 106 DETERMINE NO. of TYPE OF INSTRUCTIONS NOTESSANG FOR consect Magram ESECUTION CREATE Congressed 507 INSTRUCTION ENCODING RE-EVALUATE Compressed INSTRUCTION SET GENERATE NEW ENODNO FOR compressed INSTRUCTION SOT 5000

F.6.1

100

31 30 29 28 27		14 13		
Openic	Instruction 2		Instruction 1	

Fig. 2

31 30 29 28 27 20	6 25 24 23	
ZNCVE2E		PC[25:2]

Fig. 3

13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	0	0		СС			8	bit	sign	ied	offs	et	

Fig. 4

13	12	11	10	9	8_	7	6	5	4	3	2	1	0
0	0	1		a			b				op		

Fig. 5

13 1	2 1	1 1	0	9	8	7	6	5	4	3	2	1	<u> </u>
0 0]]	ı		a		s	ubo	p		0	p=3	1	

Fig. 6

13	12	11	10	9	8	7	6	5	4	3	2	1	0_
0	0	1	Im	ıp_e	op	su	bop	=7		0	p=3	1	

Fig. 7

13	12	11	10	9	8	7	6	5	4	3	2	1	_0_
0	1	0		Α			b		op	4	bit	offs	et

Fig. 8

3	12	11	10	9	8	7	6_	5	4	3	2	1	0
0	1	1		Α			b		op	4	bit	offs	et

Fig. 9

13	12	11	10	9	8	7	6	5	4	3	2	1	0
1	0	0		Α		op			7 bi	it of	ffset		

Fig. 10

<u>13</u>	12	11	10	9	8	7	6	5	4	3	2	1	0_
1	0	1		Α		ор		7	7 bit	tint	ege	r	

Fig. 11

13	3_	12	11	10	9	8	7	6	5	4	3	2	1	0
1		1	0		Α			op		4	bi	t int	ege	r

Fig. 12

13	12	11	10	9	8	7	6	5	4	3	2	1	0
1	1	1		a		-		h				op	

Fig. 13

14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	0	0	0		СС			8	bit	sign	ed	offs	et	

Fig. 14

14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	0	0	1		a			b				op		

Fig. 15

14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	0	0	1		a		S	ubo	p		0	p=3	1	

Fig. 16

Fig. 17

13	12	11	10	9	8	7	6	5	4	3	2	1	0	
0	0	1	0		a			b			5 bi	t of	fset	

Fig. 18

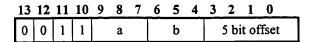


Fig. 19

14	13	12	11	10	9	8	7	6	_5_	4	3	2	1	<u> </u>
0	1	0	0		a		op			7 b	it of	fset		

Fig. 20

14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	1	0	1		a		op		-	7 bii	t int	ege	r	

Fig. 21

14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	1	1	0		a			op		4,	5 bit	t int	ege	r

Fig. 22

14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	1	1	1		a				h				op	

Fig. 23

14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
1	0	0	0		a			b		0	ор		С	

Fig. 24

14	13	12	11	10	9	8	7	6	5	4	3	2_	1	0
1	0	0	0		a			b		1	op	3	bit	int

Fig. 25

1	4	13	12	11	10	9	8	7	6	5	4	3	2	1	0
Γ	1	0	0	1		a		op			7 bii	t int	ege	r	

Fig. 26

14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
1	0	1	0		a			b		op	4	bit (offs	et

Fig. 27

1	4	13	12	11	10	9	8	7	6	5	4	3	2	1	· 0
Γ	1	0	1	1		a			b		op	4	bit (offs	set

Fig. 28

14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
1	0	0	1		а		op		7	bit	int	ege	r	

Fig. 29

14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
1	0	0	1		a		ор		7	7 bi	t int	ege	r	

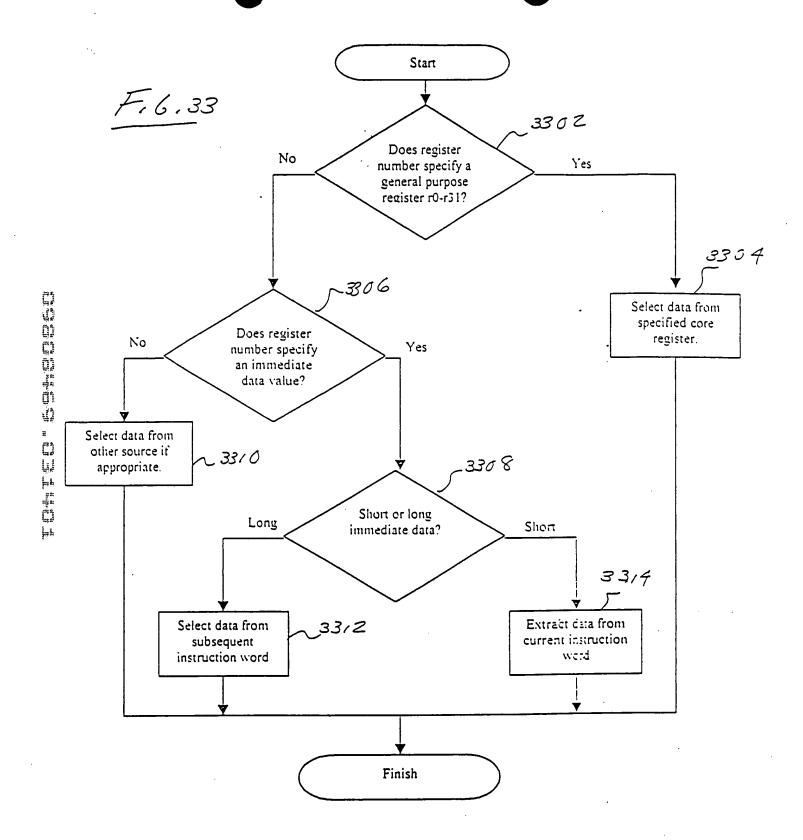
Fig. 30

14	13	12	11	10	9	8	7	6	5	4	3	_2_	1	0
1	1	1	0			1	l 1 b	it si	igne	d o	ffse	t		

Fig. 31

14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
1	1	1	1					Re	serv	/ed				

Fig. 32



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INAT SERIM OR Prisplay STORAGE CONTROL. VWQ CrO 3501 3502 RAM 3504 3500

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